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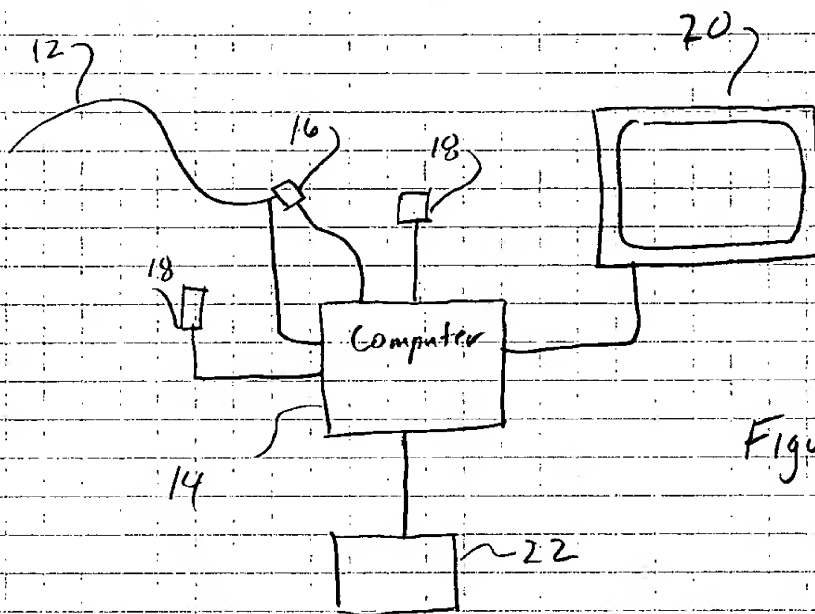
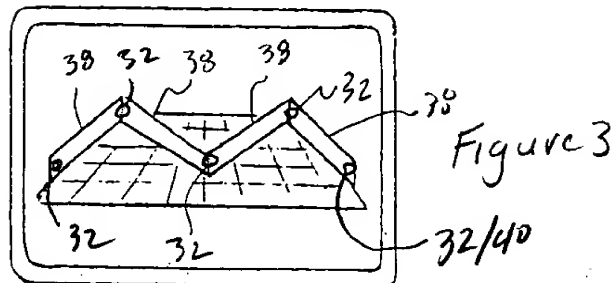


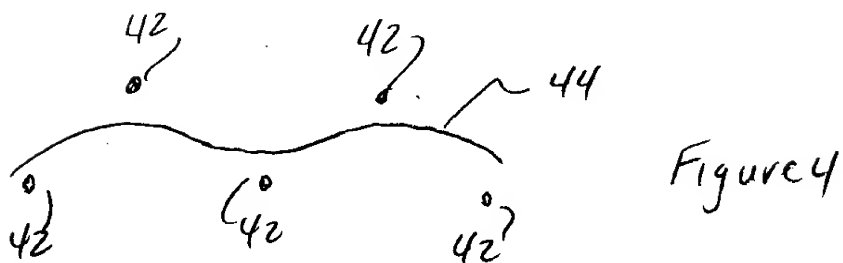
Figure 1

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Figure 2



Prior Art



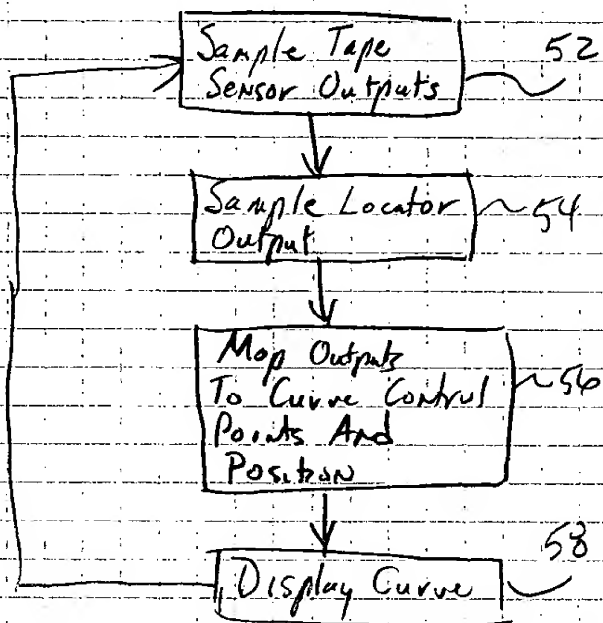


Figure 5

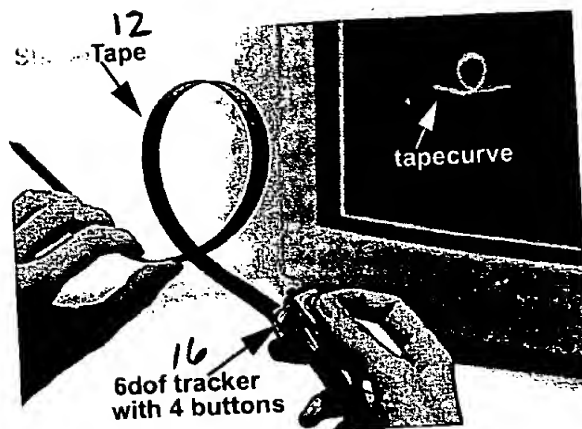
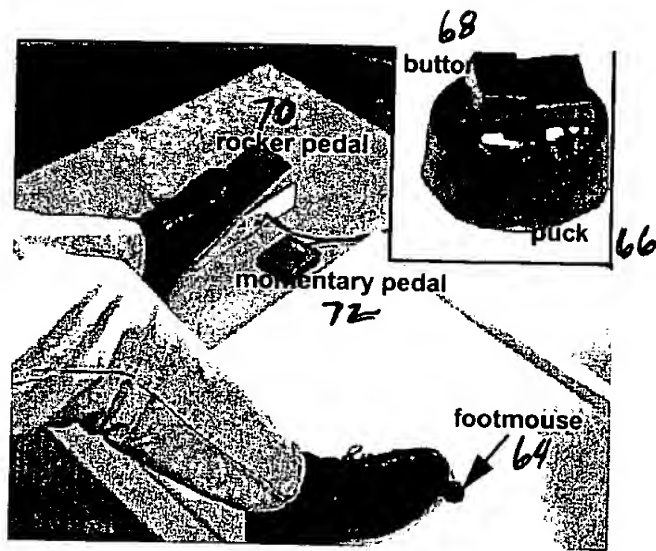


Figure 1: ShapeTape controlling a 3d virtual curve.

Figure 6

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*Foot pedals and footmouse. Inset picture is a closeup of the custom designed footmouse puck.*

Figure 7

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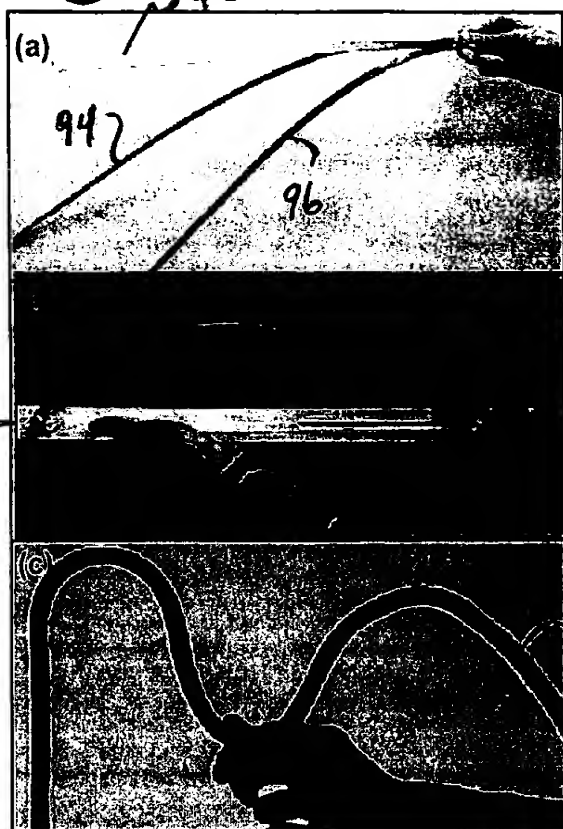


Figure 8

Figure 9

Figure 10

~~Figure 8~~ (a) Spring steels of different thicknesses and flexibility. (b) Jig for constraining spring steel. (c) Flexible curve that retains its deformed shape.

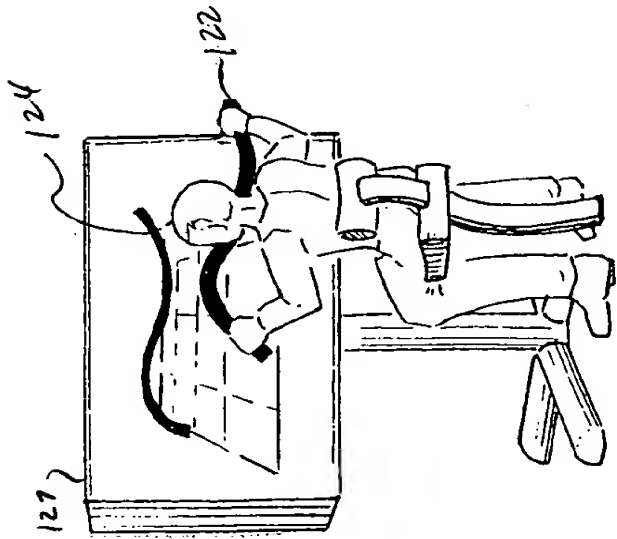


Figure 11A

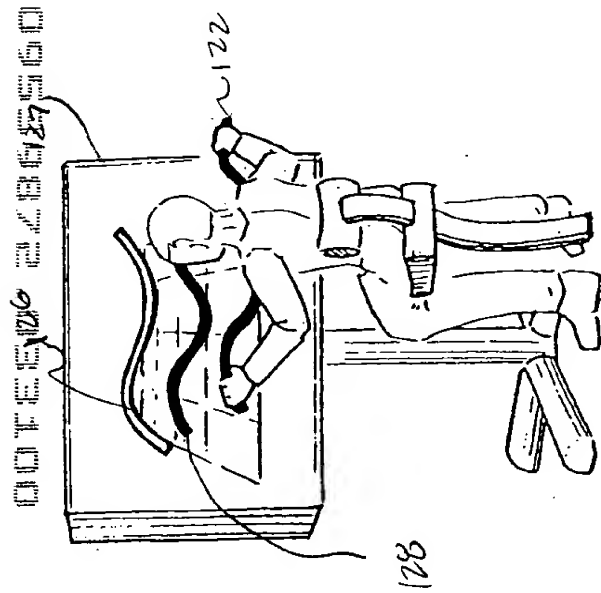


Figure 11B

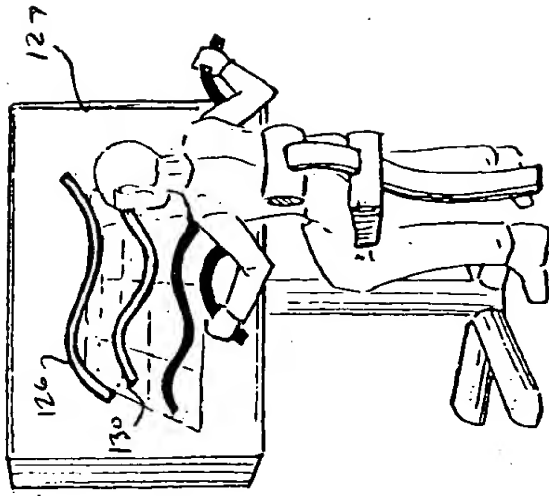


Figure 11C



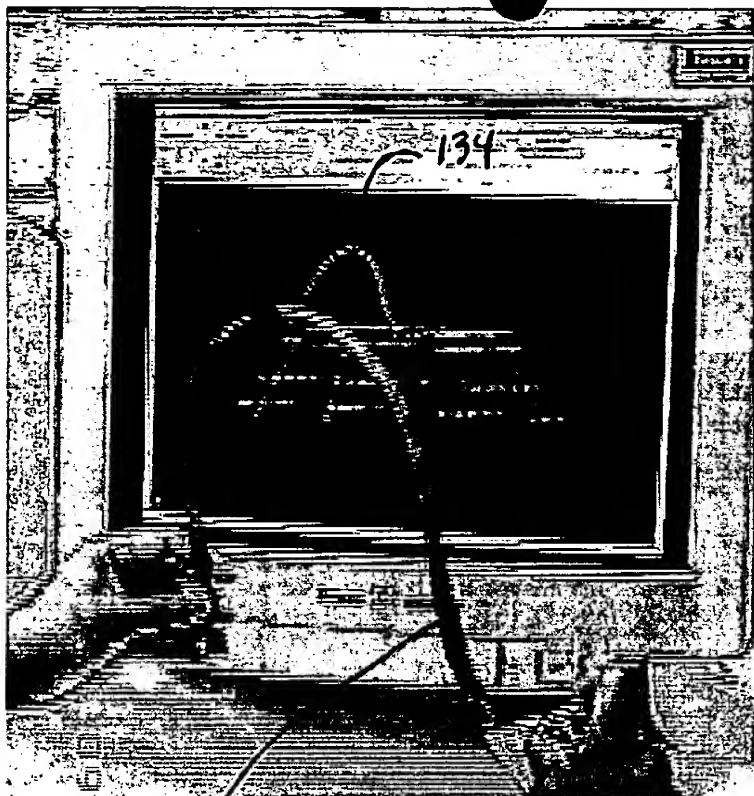
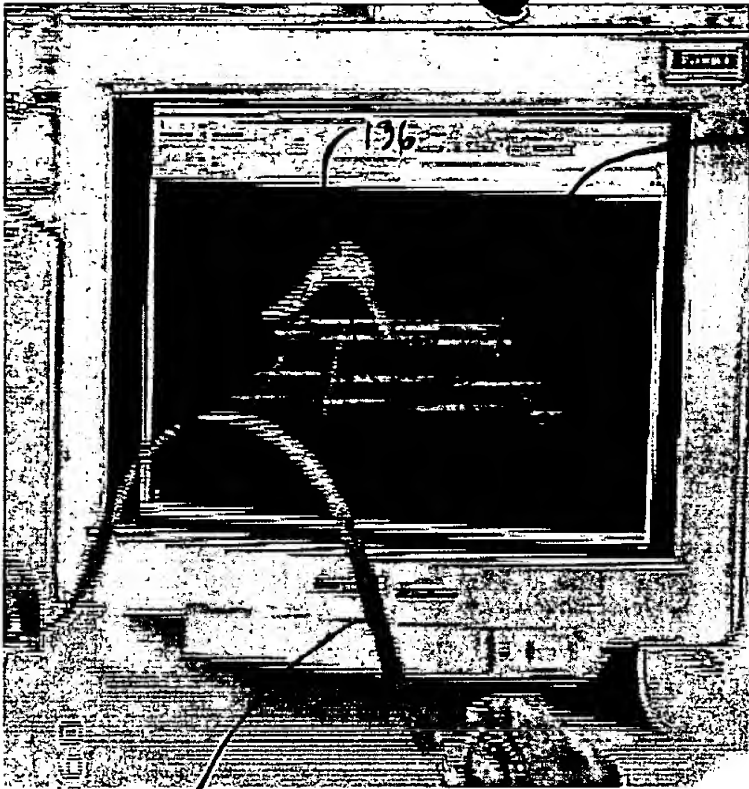


Figure 12A

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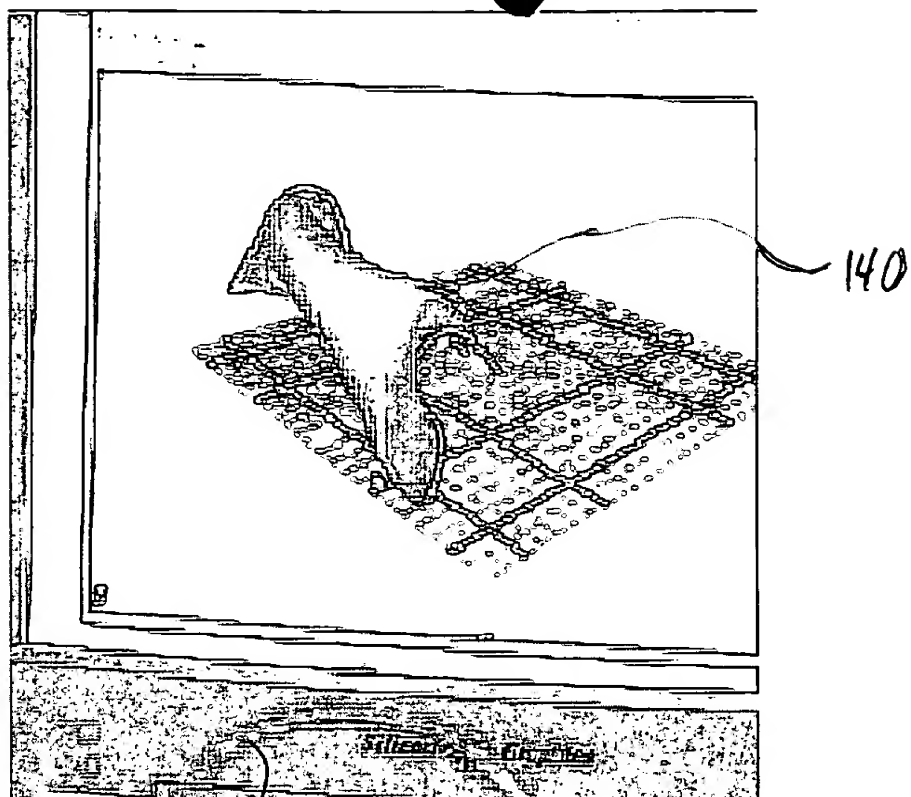


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Figure 12B

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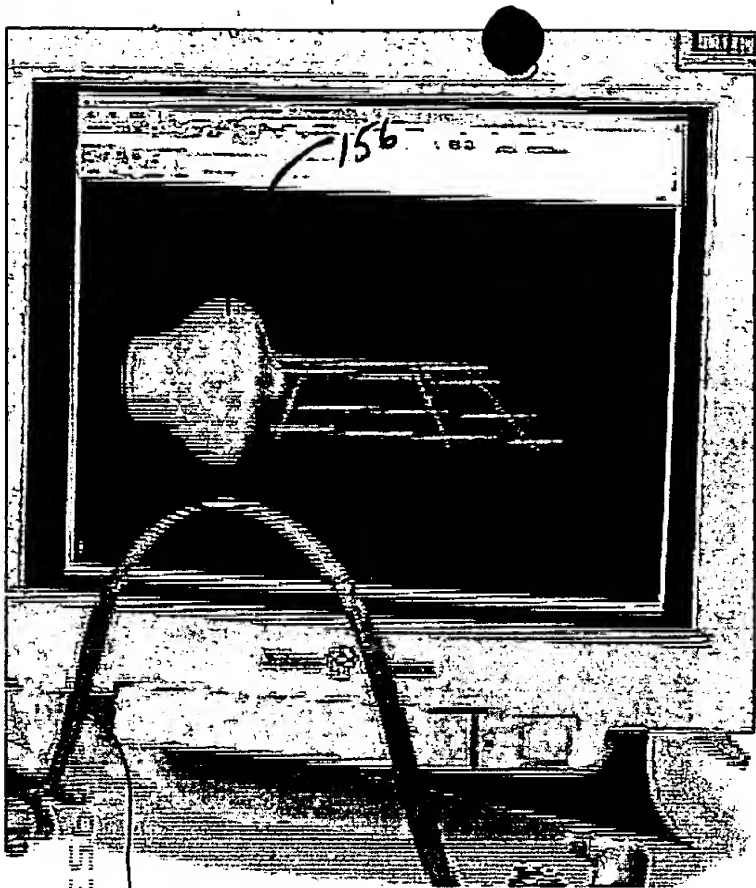


Figure 13B

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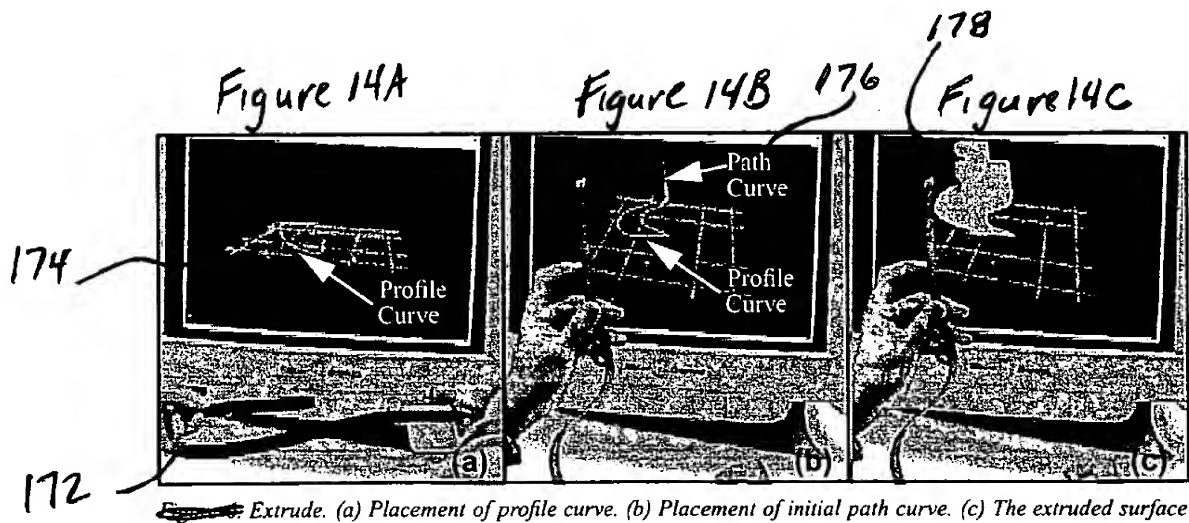
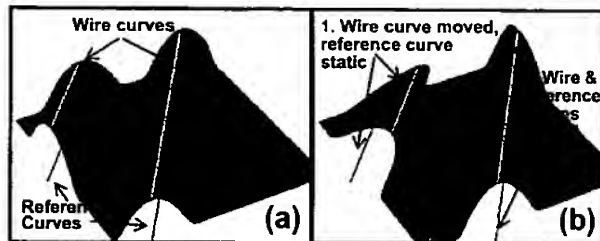


Figure 15A

Figure 15B



**Figure 15.** Wrinkles and creases using wires. (a) Shows two wire curves and associated reference curves deforming a surface. (b) 1. If a wire curve is moved while its reference curve is static, the wrinkling effect is increased. 2. If a wire curve is moved along with its reference curve, the wrinkle travels along the surface.

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Figure 16A

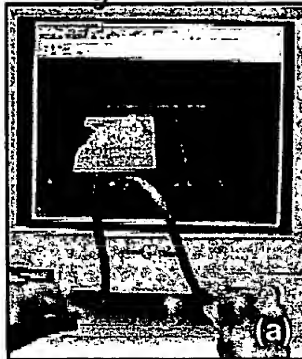


Figure 16B

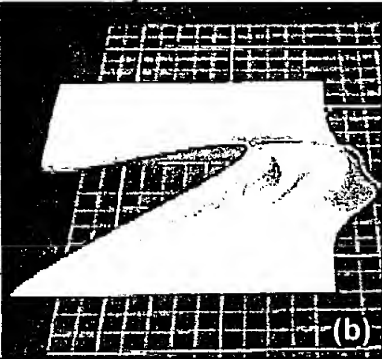


Figure 16C

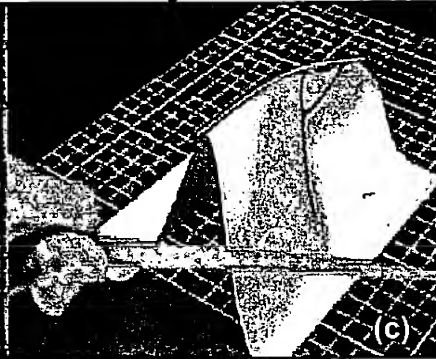


Figure 16. Surface deformations using ShapeTape. (a) Bend of wire curve deforming a surface. (b) Bend and position of wire curve deforming a surface. The reference curve is static. (c) Twist of wire curve deforming a surface.

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A hand-drawn diagram showing a curved, elongated shape, possibly a cross-section of a biological structure. The shape is defined by two parallel lines. The upper line is labeled '212' with a small arrow pointing to it. The lower line is labeled '214' with a small arrow pointing to it. The shape is wider at the ends and tapers slightly in the middle.

Figure 17A

A diagram showing a curved structure with two parallel lines. The upper line is labeled 212 and the lower line is labeled 214.

Figure 17B

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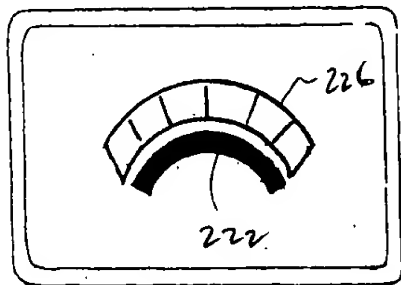


Figure 18A

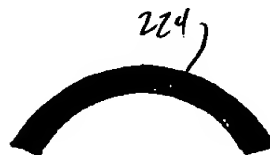
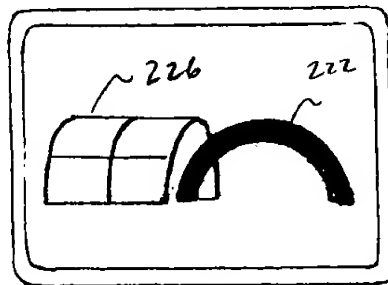


Figure 18B

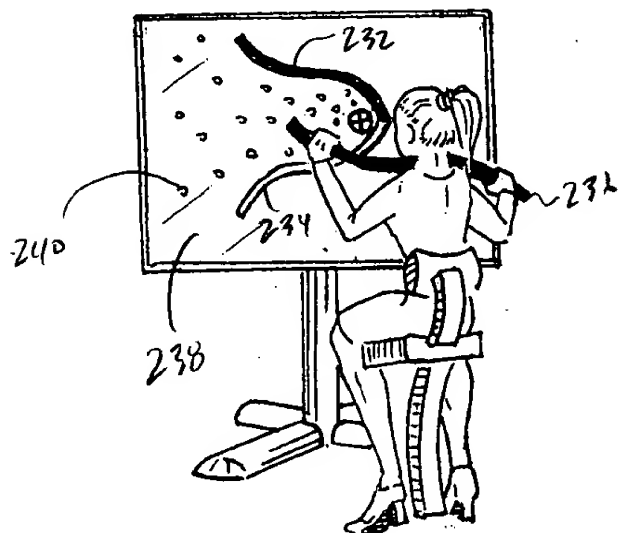


Figure 19A

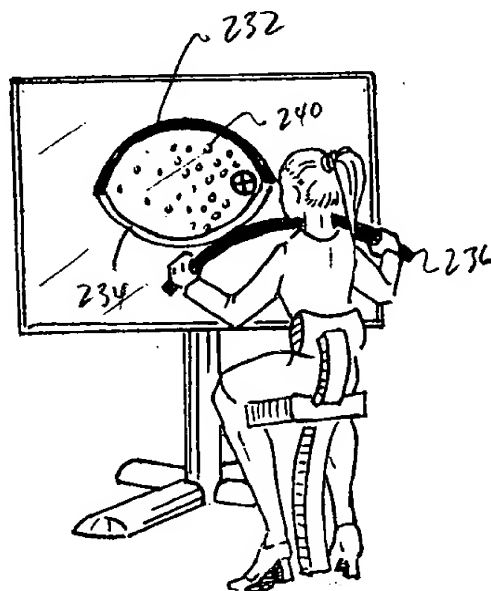


Figure 19B

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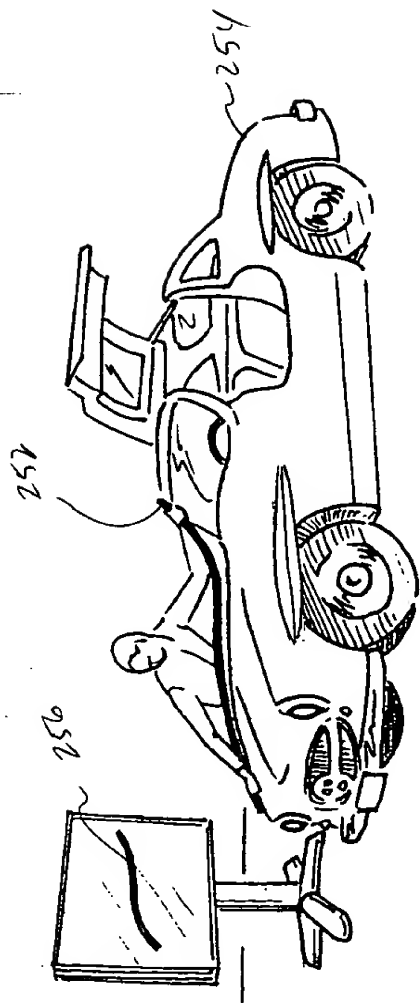


Figure 20